

US Department of Energy Groundwater Database Groundwater Master Report

Installation Name, State: Fernald Environmental Management Project
Responsible DOE Office: Office of Environmental Management

Plume Name: Great Miami Aquifer
Remediation Contractor: Unknown

Report Last Updated: Unknown

Contaminants

Halogenated VOCs/SVOCs Present? **Yes**

VOC Name	Concentration (ppb)	Regulatory Driver	Cleanup Requirement
TCE	58	No	
carbon disulfide	6	No	

Fuel Present? **No**

Metals Present? **Yes**

Metal Name	Metal Concentration (ppb)	Regulatory Driver	Cleanup Requirement
Mn	2000	No	
Mo	200	No	
U	845	No	
Ni	1540	No	
Zn	30	No	

Isotopes Present? **Yes**

Isotope Name	Isotope Activity (pCi/l)	Regulatory Driver	Cleanup Requirement
Tc	554	No	
U		No	

Explosives Present? **Yes**

Other Contaminants? **No**

Tritium Present? **No**

Nitrates Present? **Yes**

Concentration: **74500** (ppb)

Sulfates Present? **No**

Hydrogeology

Conduit Flow? **No**

Depth (feet):

Multiple Units Affected? **No**

Avg Velocity (feet/year): **1000**

Plume Information (no source)

Source **Active**

Area of Plume (acres): **745116**

Plume Status **Contaminants Offsite**

Remedial Approach

Remedy Name	Status	Start Date	End Date
pump and treat	Confirmed	1993	2013

Groundwater Use / Exit Strategy

Potable? **Yes**

Does an Exit Strategy Exist? **Yes**

Sole Source Aquifer? **Yes**

Basis for Exit Strategy: **Target Concentration**

Environmental Indicators (EIs)

Groundwater Migration Under Control? **Yes**
Confirmed by Lead Regulator? **Yes**

Current Human Exposure Acceptable? **No**
Confirmed by Lead Regulator? **No**

Regulatory

Decision Document? **Remedial Approach Proposed**
Date Approved

Regulatory Position on Groundwater Use Same as Site?

Comments

Operable Unit 5 Record of Decision documents pump and treat as agreed upon remedy. Baseline Remedial Strategy Report documents details of the ground water remedy.